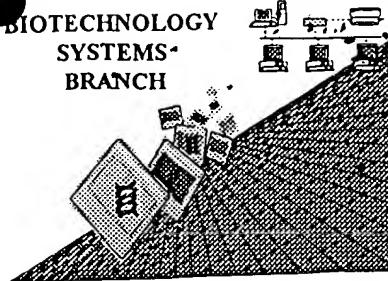


0590  
09/11

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/943,115  
Source: O/PE  
Date Processed by STIC: 9/21/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be downloaded from the USPTO website at the following address:  
<http://www.uspto.gov/web/offices/pac/checker>

**Raw Sequence Listing Error Summary**

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>09/943,115</u>
<b>ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE</b>		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (ii) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/943,115

DATE: 09/21/2001  
TIME: 20:43:25

Input Set : A:\GG119-3US.ST25.txt  
Output Set: N:\CRF3\09212001\I943115.raw

3 <110> APPLICANT: Risinger, Carl  
4 Andersson, Maria K.  
5 Lewander, Tommy  
6 Olasson, Erik  
8 <120> TITLE OF INVENTION: Detection of CYP3A4 and CYP2C9 Polymorphisms  
10 <130> FILE REFERENCE: GG119.3US  
12 <140> CURRENT APPLICATION NUMBER: US/09/943,115  
12 <141> CURRENT FILING DATE: 2001-08-30  
12 <150> PRIOR APPLICATION NUMBER: GB 0021286.0  
13 <151> PRIOR FILING DATE: 2000-08-30  
15 <160> NUMBER OF SEQ ID NOS: 72  
17 <170> SOFTWARE: PatentIn version 3.1  
19 <210> SEQ ID NO: 1  
20 <211> LENGTH: 1345  
21 <212> TYPE: DNA  
22 <213> ORGANISM: homo sapiens  
24 <400> SEQUENCE: 1  
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27 gggcagctgt tctcttcct ctttctctc ctgtttccag acatgcagta ttccagaga 120  
29 gaaggggcca ctcttggca aagaacctgt ctaacttgct atctatggca ggacctttga 180  
31 agggttcaca ggaaggcagca caaattgata ctattccacc aagccatcag ctccatctca 240  
33 tccatgccct gtcttcctt taggggtccc cttgccaaca gaatcacaga ggaccagcct 300  
35 gaaagtgcag agacagcagc tgaggcacag ccaagagctc tggctgtatt aatgacctaa 360  
37 gaagtccacca gaaagtccaga aggatgcata gcagaggccc agcaatctca gctaagtcaa 420  
39 ctccaccaggc ctttcttagtt gcccactgtg tgtacagcac sctggtaggg accagagcca 480  
41 tgacagggaa taagactaga ctatgccctt gaggagctca cctctgttca gggaaacagg 540  
43 cgtggaaaca caatgggtt aaagaggaaa gaggacaata ggattgcatt aagggatgg 600  
45 aaagtgcaca ggggaggaaa tggttacatc tgtgtgagga gtttggtagg gaaagactct 660  
47 aagagaaggc tctgtctgtc tgggtttggg aggatgtgtt ggagtcttct agggggcaca 720  
49 ggcacactcc aggcatacggt aaagatctgt aggtgtggct tggctgttca aatttcaagt 780  
51 attttggaaat gaggacagcc atagagacaa gggcargaga gaggcgattt aatagatttt 840  
53 atgccaatgg ctccacttga gtttctgata agaaccaga acccttggac tccccagtaa 900  
55 cattgattga gttgtttatg atacctata gaatatgaac tcaaaggagg tcagttagtg 960  
57 gtgtgtgtgt gattcttgc caacttccaa ggtggagaag cctcttccaa ctgcaggcag 1020  
59 agcacaggtt gccctgtac tggctgcagc tccagccctg ctccttctc tagcatataa 1080  
61 acaatccaaac agcctcaactg aatcaactgt gtgcaggcga gaaagctcc atgcacatag 1140  
63 cccagcaaag agcaacacag agctgaaagg aagactcaga ggagagagat aagtaaggaa 1200  
65 agtagtgatg gctctcatcc cagacttggc catggaaacc tggcttctcc tggctgtcag 1260  
67 cctggtgctc ctctatctgt gatgactgt tcaggctcct tttctctgtt tcttgactt 1320  
69 ggggtcgtaa tcaggctctt ctttt 1345  
72 <210> SEQ ID NO: 2  
73 <211> LENGTH: 19  
74 <212> TYPE: DNA  
75 <213> ORGANISM: synthetic See item 10 on Env Summary Sheet  
77 <400> SEQUENCE: 2  
78 acaaggcga gagagaggc  
81 <210> SEQ ID NO: 3

19

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/943,115

DATE: 09/21/2001

TIME: 20:43:25

Input Set : A:\GG119-3US.ST25.txt

Output Set: N:\CRF3\09212001\I943115.raw

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118 ctccctgagga atgaaatgtat tattataaag acagaaccc agcttatttt acccaaata	180
120 aggttagata tttctgttag agtttagagt ttcatgagtc agggaccaag ttattgttt	240
122 tcttgcctt gtataaaggc ttctccaagg ccttgactt acctaagttac taaatgttat	300
124 aaaaccaaac tcttctgacc tctcaatcta gtcaactggg gctgttaatta ttaatgaaat	360
126 taatgtttat tttgaaaata attactaga ctgaattacg aaatctgaa tcattgtaca	420
128 ctatcgttaa atattggggg acccaactga actgaatgtt ttgcttggaa tgaaaccttt	480
130 gagatgcagg gcttatgggt tctagtcaca gctctagcac tagcagacag catgttcttg	540
132 gctaagatac tgaatcttca aggctcagct tcctcattcc gggaaatgggt caatttatt	600
134 gtaagcagag gtaattgaga gattcaaaag ggacatgagg tgtaacaatt ctctgtaaat	660
136 ttttgcatac cctgttaaaa atgaccagta aagctttgtg caactgtgtc ttgacataac	720
138 tttattttc ttaataaaaat aaatggaaat aacccacta gggaaatttag aacaaatatg	780
140 atgatatctt taaagaaaat ggcttgcac aagtatttgc attaatgtatc tagaaatgt	840
142 tatctttcta gttgtattta gatcctcaac tcagatgtc agctcgttt aaggctata	900
144 cattgtgggt gttctgtgtc gtgggtccat ttatgttatt ccctacctcc catcttcat	960
146 tgcattccaca actgtgggtc tgtccataat ttcccttgcatt ttctgtgcatt tattacatca	1020
148 tatctgaaaa tgagaaacca aaaacaatrg aaagcagcca tgtctggagg tgactggggg	1080
150 gtcgagaagc cctagttct caaaccctta gcaccaaatt ttccctcag ttacactgag	1140
152 cggttcactt ctgcgtgtat ggaraaggga gatcccttat ttcttctcat gacatctct	1200
154 ggtgtgttt cccttagaga caaataaggg gtttattta atgtgaagcc tggtttatga	1260
156 acagaataaa tgtgtgtat attcagaata actaatgttt ggaagttt ttatcttgc	1320
158 taaaaattgt tctcaaggca gctctgggt aagagataat acaccacat gggcatcaga	1380
160 agacccatc tcaaatccca gttctgcac ctatgagctg tggccacca acaggtgtcc	1440
162 tggctccca gggctccct tttccattt gaaaaataaa aaataacaat tcctgccttc	1500
164 aggaattttt tttaggggt ttaatkgtaa aggtgtttat atctgctaa gtaatttact	1560
166 tgatatatgt ttggttattt aagatataat agttatgtt a gctatccat gtttaggtcg	1620

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/943,115

DATE: 09/21/2001

TIME: 20:43:25

Input Set : A:\GG119-3US.ST25.txt

Output Set: N:\CRF3\09212001\I943115.raw

168	ctgtatTTT	agttaggctat	attaaatatt	tgaaaggatt	wmattataaa	gaacaaagtc	1680
170	tcctaatttt	tgatatacg	ttgacatact	ttttaaatat	acaaggcata	gaatatggcc	1740
172	atttctgtta	aatcatatat	tcccaactgg	ttttaatct	aagaattcag	aattttgagt	1800
174	aattgtttt	gcatcagatt	atttactca	gtgctctaa	ttatgtatgt	gcattagaac	1860
176	catctgggtt	aacatttggtt	ttttattacc	aatacctagg	ctccaaccaa	gtacagtgaa	1920
178	actggaatgt	acagagtgg	caatggaaacg	aaggagaaca	agaccaaagg	acattttatt	1980
180	tttatctgta	tcagtggtc	aaagtcctt	cagaaggagc	atatagtgga	cctaggtgat	2040
182	tggtaattt	atccatcaa	gaggcacaca	ccgaatttagc	atggagtgtt	ataaaaaggct	2100
184	tggagtgc	aaacatcggtt	gtcttaacaa	gaagagaagg	cttcaatgga	ttctcttg	2160
186	gtccttgc	tctgtctc	atgtttgc	ctcccttac	tctggagaca	gagctctggg	2220
188	agaggaaac	tccctcctgg	ccccactct	ctcccaagtga	ttggaaatat	cctacagata	2280
190	gttattaagg	acatcagcaa	atccttaacc	aatgttaagta	tgctccttca	gtggcttgca	2340
192	aaaggtaat	aaattcacct	gtatTTT	aataaagtgt	atccctagag	gtacatgtta	2400
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197	<210>	SEQ ID NO:	7				
198	<211>	LENGTH:	20				
199	<212>	TYPE:	DNA				
200	<213>	ORGANISM:	synthetic				
202	<400>	SEQUENCE:					
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212	tcttagagtc	tttcctcacc	aaact				25
215	<210>	SEQ ID NO:	9				
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218	<213>	ORGANISM:	synthetic				
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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/943,115

DATE: 09/21/2001  
TIME: 20:43:25

Input Set : A:\GG119-3US.ST25.txt  
Output Set: N:\CRF3\09212001\I943115.raw

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251 <210> SEQ ID NO: 13
252 <211> LENGTH: 11
253 <212> TYPE: DNA
254 <213> ORGANISM: synthetic
256 <400> SEQUENCE: 13

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261 <211> LENGTH: 11
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263 <213> ORGANISM: synthetic
265 <400> SEQUENCE: 14

266 accagcgtgc t 11
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270 <211> LENGTH: 11
271 <212> TYPE: DNA
272 <213> ORGANISM: synthetic
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278 <210> SEQ ID NO: 16
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281 <213> ORGANISM: synthetic
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284 gctgtacaca c 11
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293 tggccctac c 11
296 <210> SEQ ID NO: 18
297 <211> LENGTH: 11
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299 <213> ORGANISM: synthetic
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307 <212> TYPE: DNA
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310 <400> SEQUENCE: 19

311 cactagggaa tttagaacaa atatg 25
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316 <212> TYPE: DNA
317 <213> ORGANISM: synthetic
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320 gcacagaaag caaaggaaat tat 23

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/943,115

DATE: 09/21/2001  
TIME: 20:43:25

Input Set : A:\GG119-3US.ST25.txt  
Output Set: N:\CRF3\09212001\I943115.raw

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329 tgtatTTAGA tcctcaactc agtatgt	27
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333 <211> LENGTH: 21	
334 <212> TYPE: DNA	
335 <213> ORGANISM: <i>synthetic</i>	
337 <400> SEQUENCE: 22	
338 ggatctccct tctccatcac t	21
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347 ggtccatttt gtgatttccc tac	23
350 <210> SEQ ID NO: 24	
351 <211> LENGTH: 25	
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379 <212> TYPE: DNA	
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387 <211> LENGTH: 25	
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392 ccagttggga atatatgatt taaca	25
395 <210> SEQ ID NO: 29	

The types of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/943,115

DATE: 09/21/2001  
TIME: 20:43:26

Input Set : A:\GG119-3US.ST25.txt  
Output Set: N:\CRF3\09212001\I943115.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date